

TEST REPORT FOR GRAHAM ARCHITECTURAL PRODUCTS CORP.

Report No: J3253.01-116-45

Date: 1/29/2019

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GT6800 Dual Action)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	Center Gasket (Full Perimeter): E366 / ARG95 / CLR (5MM/5MM) - 1" IG											
	0.187	0.625	0.185					ARG95	0.022(#2)	CL	SS-D	N
	U-Factor 0.31		SHGC (N) 0.22				VT (N) 0.49		CR 57			
2	Center Gasket (Full Perimeter): E272 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG											
	0.187	0.531	0.264					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.31		SHGC (N) 0.32				VT (N) 0.54		CR 58			
3	Center Gasket (Full Perimeter): E366 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG											
	0.187	0.531	0.264					ARG95	0.022(#2)	CL	SS-D	N
	U-Factor 0.30		SHGC (N) 0.22				VT (N) 0.49		CR 58			
4	Center Gasket (Full Perimeter): E270 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.236	0.500	0.224					ARG95	0.037(#2)	CL	SS-D	N
	U-Factor 0.30		SHGC (N) 0.28				VT (N) 0.52		CR 57			
5	Center Gasket (Full Perimeter): E272 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.31		SHGC (N) 0.32				VT (N) 0.54		CR 57			
6	Center Gasket (Full Perimeter): E340 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG95	0.028(#2)	CL	SS-D	N
	U-Factor 0.30		SHGC (N) 0.15				VT (N) 0.29		CR 58			
7	Center Gasket (Full Perimeter): E366 / AIR / CLR (6MM/6MM) - 1" IG											
	0.225	0.500	0.224					AIR	0.022(#2)	CL	SS-D	N
	U-Factor 0.34		SHGC (N) 0.22				VT (N) 0.49		CR 54			
8	Center Gasket (Full Perimeter): E366 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.225	0.500	0.224					ARG95	0.022(#2)	CL	SS-D	N
	U-Factor 0.30		SHGC (N) 0.22				VT (N) 0.49		CR 58			
9	Center Gasket (Full Perimeter): E366 / ARG95 / i89 (6MM/6MM) - 1" IG											
	0.225	0.500	0.223					ARG95	0.022(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.26		SHGC (N) 0.21				VT (N) 0.47		CR 47			
10	Center Gasket (Full Perimeter): SNX 62/27 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG											
	0.182	0.531	0.264					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.31		SHGC (N) 0.21				VT (N) 0.48		CR 56			

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GT6800 Dual Action)													
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type	
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)			
11	Center Gasket (Full Perimeter): SB60 / ARG95 / CLR (6MM/6MM) - 1" IG												
	0.223	0.500	0.223					ARG95	0.035(#2)	CL	SS-D	N	
	U-Factor		0.31	SHGC (N)				0.31	VT (N)		0.54	CR	
12	Center Gasket (Full Perimeter): SB70 / ARG95 / CLR (6MM/6MM) - 1" IG												
	0.223	0.500	0.223					ARG95	0.018(#2)	CL	SS-D	N	
	U-Factor		0.31	SHGC (N)				0.22	VT (N)		0.49	CR	
13	Center Gasket (Full Perimeter): SN68 / AIR / CLR (6MM/6MM) - 1" IG												
	0.221	0.500	0.221					AIR	0.039(#2)	CL	SS-D	N	
	U-Factor		0.35	SHGC (N)				0.30	VT (N)		0.52	CR	
14	Center Gasket (Full Perimeter): SN68 / ARG95 / CLR (6MM/6MM) - 1" IG												
	0.221	0.500	0.221					ARG95	0.039(#2)	CL	SS-D	N	
	U-Factor		0.31	SHGC (N)				0.29	VT (N)		0.52	CR	
15	Center Gasket (Full Perimeter): SNX 62/27 / ARG95 / CLR (6MM/6MM) - 1" IG												
	0.221	0.500	0.221					ARG95	0.020(#2)	CL	SS-D	N	
	U-Factor		0.31	SHGC (N)				0.21	VT (N)		0.48	CR	
16	Center Gasket (Full Perimeter): SNX 62/27 / ARG95 / IS-20 (6MM/6MM) - 1" IG												
	0.221	0.500	0.221					ARG95	0.020(#2) / 0.198(#4)	CL	SS-D	N	
	U-Factor		0.28	SHGC (N)				0.20	VT (N)		0.46	CR	
17	Center Gasket (Full Perimeter): E366 / AIR / CLR (6MM/6MM) - 1-1/4" IG												
	0.225	0.750	0.224					AIR	0.022(#2)	CL	SS-D	N	
	U-Factor		0.36	SHGC (N)				0.22	VT (N)		0.49	CR	
18	Center Gasket (Full Perimeter): SNX 62/27 / ARG95 / CLR (6MM/6MM) - 1-1/4" IG												
	0.221	0.750	0.221					ARG95	0.020(#2)	CL	SS-D	N	
	U-Factor		0.32	SHGC (N)				0.21	VT (N)		0.48	CR	
19	Center Gasket (Sill Perimeter Only): E366 / ARG95 / CLR (5MM/5MM) - 1" IG												
	0.187	0.625	0.185					ARG95	0.022(#2)	CL	SS-D	N	
	U-Factor		0.32	SHGC (N)				0.22	VT (N)		0.49	CR	
20	Center Gasket (Sill Perimeter Only): E272 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG												
	0.187	0.531	0.264					ARG95	0.042(#2)	CL	SS-D	N	
	U-Factor		0.32	SHGC (N)				0.32	VT (N)		0.54	CR	

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GT6800 Dual Action)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
21	Center Gasket (Sill Perimeter Only): E366 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG											
	0.187	0.531	0.264					ARG95	0.022(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.22				VT (N) 0.49		CR 58			
22	Center Gasket (Sill Perimeter Only): E270 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.236	0.500	0.224					ARG95	0.037(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.28				VT (N) 0.52		CR 57			
23	Center Gasket (Sill Perimeter Only): E272 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.32				VT (N) 0.54		CR 57			
24	Center Gasket (Sill Perimeter Only): E340 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG95	0.028(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.15				VT (N) 0.29		CR 57			
25	Center Gasket (Sill Perimeter Only): E366 / AIR / CLR (6MM/6MM) - 1" IG											
	0.225	0.500	0.224					AIR	0.022(#2)	CL	SS-D	N
	U-Factor 0.35		SHGC (N) 0.22				VT (N) 0.49		CR 54			
26	Center Gasket (Sill Perimeter Only): E366 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.225	0.500	0.224					ARG95	0.022(#2)	CL	SS-D	N
	U-Factor 0.31		SHGC (N) 0.22				VT (N) 0.49		CR 57			
27	Center Gasket (Sill Perimeter Only): E366 / ARG95 / i89 (6MM/6MM) - 1" IG											
	0.225	0.500	0.223					ARG95	0.022(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.28		SHGC (N) 0.21				VT (N) 0.47		CR 46			
28	Center Gasket (Sill Perimeter Only): SNX 62/27 / ARG95 / CL-LAMI (5MM/3MM 030 PVB 3MM) - 1" IG											
	0.182	0.531	0.264					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.21				VT (N) 0.48		CR 56			
29	Center Gasket (Sill Perimeter Only): SB60 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.223	0.500	0.223					ARG95	0.035(#2)	CL	SS-D	N
	U-Factor 0.33		SHGC (N) 0.31				VT (N) 0.54		CR 54			
30	Center Gasket (Sill Perimeter Only): SB70 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.223	0.500	0.223					ARG95	0.018(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.22				VT (N) 0.49		CR 54			

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GT6800 Dual Action)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
31	Center Gasket (Sill Perimeter Only): SN68 / AIR / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					AIR	0.039(#2)	CL	SS-D	N
	U-Factor 0.36		SHGC (N) 0.30				VT (N) 0.52		CR 51			
32	Center Gasket (Sill Perimeter Only): SN68 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG95	0.039(#2)	CL	SS-D	N
	U-Factor 0.33		SHGC (N) 0.29				VT (N) 0.52		CR 54			
33	Center Gasket (Sill Perimeter Only): SNX 62/27 / ARG95 / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.32		SHGC (N) 0.21				VT (N) 0.48		CR 54			
34	Center Gasket (Sill Perimeter Only): SNX 62/27 / ARG95 / IS-20 (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG95	0.020(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.29		SHGC (N) 0.20				VT (N) 0.46		CR 53			
35	Center Gasket (Sill Perimeter Only): E366 / AIR / CLR (6MM/6MM) - 1-1/4" IG											
	0.225	0.750	0.224					AIR	0.022(#2)	CL	SS-D	N
	U-Factor 0.37		SHGC (N) 0.22				VT (N) 0.49		CR 57			
36	Center Gasket (Sill Perimeter Only): SNX 62/27 / ARG95 / CLR (6MM/6MM) - 1-1/4" IG											
	0.221	0.750	0.221					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.33		SHGC (N) 0.21				VT (N) 0.48		CR 59			
37	Center Gasket (Full Perimeter): E180 / ARG95 / E180 / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG											
	0.187	0.438	0.223	0.438	0.185			ARG95	0.068(#2) / 0.068(#4)	CL	SS-D	N
	U-Factor 0.22		SHGC (N) 0.40				VT (N) 0.52		CR 68			
38	Center Gasket (Full Perimeter): E180 / ARG95 / CLR / ARG95 / i89 (5MM/6MM/5MM) - 1-1/2" IG											
	0.187	0.438	0.224	0.438	0.187			ARG95	0.068(#2) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.23		SHGC (N) 0.43				VT (N) 0.53		CR 54			
39	Center Gasket (Full Perimeter): E180 / ARG95 / E180 / ARG95 / i89 (5MM/6MM/5MM) - 1-1/2" IG											
	0.187	0.438	0.223	0.438	0.187			ARG95	0.068(#2) / 0.068(#4) / 0.149(#6)	CL	SS-D	N
	U-Factor 0.20		SHGC (N) 0.39				VT (N) 0.51		CR 61			
40	Center Gasket (Full Perimeter): E270 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG											
	0.197	0.438	0.224	0.438	0.185			ARG95	0.037(#2)	CL	SS-D	N
	U-Factor 0.25		SHGC (N) 0.26				VT (N) 0.48		CR 67			

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GT6800 Dual Action)													
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type	
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)			
41	Center Gasket (Full Perimeter): E272 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.185			AIR	0.042(#2)	CL	SS-D	N	
	U-Factor		0.28	SHGC (N)				0.30	VT (N)		0.49	CR	
42	Center Gasket (Full Perimeter): E272 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.185			ARG95	0.042(#2)	CL	SS-D	N	
	U-Factor		0.25	SHGC (N)				0.29	VT (N)		0.49	CR	
43	Center Gasket (Full Perimeter): E366 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.185			AIR	0.022(#2)	CL	SS-D	N	
	U-Factor		0.28	SHGC (N)				0.20	VT (N)		0.44	CR	
44	Center Gasket (Full Perimeter): E366 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.185			ARG95	0.022(#2)	CL	SS-D	N	
	U-Factor		0.25	SHGC (N)				0.20	VT (N)		0.44	CR	
45	Center Gasket (Full Perimeter): E366 / AIR / CLR / AIR / i89 (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.187			AIR	0.022(#2) / 0.149(#6)	CL	SS-D	N	
	U-Factor		0.25	SHGC (N)				0.20	VT (N)		0.43	CR	
46	Center Gasket (Full Perimeter): E366 / ARG95 / CLR / ARG95 / i89 (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.224	0.438	0.187			ARG95	0.022(#2) / 0.149(#6)	CL	SS-D	N	
	U-Factor		0.23	SHGC (N)				0.20	VT (N)		0.43	CR	
47	Center Gasket (Full Perimeter): E366 / ARG95 / E180 / ARG95 / i89 (5MM/6MM/5MM) - 1-1/2" IG												
	0.187	0.438	0.223	0.438	0.187			ARG95	0.022(#2) / 0.068(#4) / 0.149(#6)	CL	SS-D	N	
	U-Factor		0.20	SHGC (N)				0.19	VT (N)		0.42	CR	
48	Center Gasket (Full Perimeter): SN68 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.182	0.438	0.221	0.438	0.182			AIR	0.039(#2)	CL	SS-D	N	
	U-Factor		0.29	SHGC (N)				0.28	VT (N)		0.48	CR	
49	Center Gasket (Full Perimeter): SN68 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.182	0.438	0.221	0.438	0.182			ARG95	0.039(#2)	CL	SS-D	N	
	U-Factor		0.26	SHGC (N)				0.27	VT (N)		0.48	CR	
50	Center Gasket (Full Perimeter): SNX 62/27 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.182	0.438	0.221	0.438	0.182			AIR	0.020(#2)	CL	SS-D	N	
	U-Factor		0.29	SHGC (N)				0.20	VT (N)		0.43	CR	

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Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type	
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)			
51	Center Gasket (Full Perimeter): SNX 62/27 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.182	0.438	0.221	0.438	0.182			ARG95	0.020(#2)	CL	SS-D	N	
	U-Factor		0.26	SHGC (N)				0.19	VT (N)		0.43	CR	
52	Center Gasket (Full Perimeter): SNX 62/27 / AIR / CLR / AIR / IS-20 (5MM/6MM/5MM) - 1-1/2" IG												
	0.182	0.438	0.221	0.438	0.182			AIR	0.020(#2) / 0.198(#6)	CL	SS-D	N	
	U-Factor		0.26	SHGC (N)				0.19	VT (N)		0.42	CR	
53	Center Gasket (Full Perimeter): SB60 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.184	0.438	0.223	0.438	0.184			AIR	0.035(#2)	CL	SS-D	N	
	U-Factor		0.29	SHGC (N)				0.28	VT (N)		0.49	CR	
54	Center Gasket (Full Perimeter): SB60 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.184	0.438	0.223	0.438	0.184			ARG95	0.035(#2)	CL	SS-D	N	
	U-Factor		0.26	SHGC (N)				0.28	VT (N)		0.49	CR	
55	Center Gasket (Full Perimeter): SB70 / AIR / CLR / AIR / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.184	0.438	0.223	0.438	0.184			AIR	0.018(#2)	CL	SS-D	N	
	U-Factor		0.29	SHGC (N)				0.20	VT (N)		0.44	CR	
56	Center Gasket (Full Perimeter): SB70 / ARG95 / CLR / ARG95 / CLR (5MM/6MM/5MM) - 1-1/2" IG												
	0.184	0.438	0.223	0.438	0.184			ARG95	0.018(#2)	CL	SS-D	N	
	U-Factor		0.26	SHGC (N)				0.20	VT (N)		0.44	CR	